

## EAST Search History

S23 0	2	"6452981".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:39
S23 1	1	"6452981".pn. and (bit\$1 near3 error\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:52
S23 2	1	"6452981".pn. and (symbol\$1 near3 error\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:52
S23 3	1	S230 and (symbol\$1 near3 error\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:52
S23 4	1	S231 and (symbol\$1 near3 error\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:53
S23 5	0	S230 and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:53
S23 6	1	"6888789".pn. and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:21
S23 7	0	S236 and ((bit\$1 near3 error\$5) same (symbol near3 error\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:54
S23 8	250	hamming and ((bit\$1 near3 error\$5) same (symbol near3 error\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:55
S23 9	22	S238 and (multi adj2 (carrier\$1 or channel\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 15:57

## EAST Search History

S24 0	1	S239 and (encod\$3 near3 constellation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:03
S24 1	7	S238 and (encod\$3 near3 constellation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:04
S24 2	7	(bit adj2 load\$3) same hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:22
S24 3	156	(bit adj2 load\$3) same constellation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:23
S24 4	1	S243 and (constellation near3 hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:23
S24 5	4	S243 and (constellation same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:40
S24 6	6	S243 and (hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:23
S24 7	1	"6452981".pn. and distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:39
S24 8	127	(constellation same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:40
S24 9	12	(constellation same hamming) same (bit adj2 error\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/24 16:40

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4	mitlin-vlad.in. and (select\$3 near3 (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 07:57
S2	11	375/260.ccls. and (select\$3 near3 (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 16:02
S3	0	S2 and (constellation and hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:09
S4	278	(select\$3 near3 (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:44
S5	2	"6134273".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:09
S6	5	S4 and (constellation and hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:10
S7	0	self adj2 similar adj2 constellation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:10
S8	0	self adj2 similar\$3 adj2 constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:28
S9	24	hamming near3 constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:40

## EAST Search History

S10	0	S9 and (repeat\$3 adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:11
S11	0	S9 and (repeat\$3 near3 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:11
S12	1295	self adj2 similar\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:35
S13	40	S12 and (hamming or QAM or constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:35
S14	1	S13 and (multi adj2 (carrier))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:38
S15	1	fractal near3 constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:35
S16	0	S15 and (self adj2 similar\$6 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:36
S17	0	(self adj2 similar\$6 ) near3 constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:36
S18	0	(self adj2 similar\$6 ) near3 (QAM or hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:37
S19	0	(fractal ) near3 (QAM or hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:37

## EAST Search History

S20	0	S9 and (multi adj2 (carrier))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:38
S21	1	S9 and (multi adj2 (carrier or signal\$1 or tone\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:38
S22	0	S4 and (hamming near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:41
S23	2	(sub adj2 (channel\$1 or frame\$1)) and (hamming near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:42
S24	0	S23 and (select\$3 near3 (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:45
S25	2	S23 and (select\$3 near3 (bit\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/29 17:45
S26	645	bit adj2 error adj2 probability	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:11
S27	61	S26 and (qam adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:19
S28	11	S27 and (error adj2 control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:14
S29	3	S28 and (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:18

## EAST Search History

S30	7	(hamming adj2 distance\$1) and (self adj2 similar\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:22
S31	0	S30 and (qam adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:20
S32	0	S30 and (constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:20
S33	0	S30 and (bit adj2 error adj2 probability)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:26
S34	0	constellation\$1 near3 (self adj2 similar\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:26
S35	1	S26 and (self adj2 similar\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:22
S36	16	constellation\$1 and (self adj2 similar\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:52
S37	0	S36 and (bit adj2 error adj2 probability)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:26
S38	1	S36 and (bit adj2 error )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:26
S39	0	((qam or quadrature) adj2 constellation\$3) same (bit adj2 error adj2 probability)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:30

## EAST Search History

S40	1	((qam or quadrature) near3 constellation\$3) same (bit adj2 error adj2 probability)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:46
S41	22	S26 and (bit adj2 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:01
S42	4	S41 and ((qam or quadrature) near3 constellation\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:49
S43	2	S42 and distance\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:51
S44	0	S42 and (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:51
S45	6	(hamming adj2 distance\$1) same (bit adj2 error adj2 probability)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:59
S46	0	S45 and (constellation\$1 and (self adj2 similar\$6))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:52
S47	1	S45 and (constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 14:52
S48	0	(hamming adj2 distance\$1) same (square adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:10
S49	7	(hamming adj2 distance\$1) and (square adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:04

## EAST Search History

S50	0	S49 and (bit adj2 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:12
S51	0	S49 and (bit adj2 error adj2 probability)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:01
S52	5	cross adj2 qam adj2 constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:04
S53	1	S52 and (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:04
S54	105	bit adj2 load\$3 adj2 select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:19
S55	0	S36 and (bit adj2 load\$3 adj2 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:13
S56	1	S54 and ((constellation\$1) and (hamming adj2 distance\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:18
S57	162	(repeat\$3 or duplicat\$3 or copy\$3 or equal) near3 (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:19
S58	0	S57 and (bit adj2 load\$3 adj2 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:11
S59	1	S57 and (bit adj2 load\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:23



## EAST Search History

S60	2	"6075821".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:26
S61	8	"6075821".pn."6072779".pn. "6064692".pn. "5852633".pn. "5479447".pn. and ((hamming adj2 distance\$1) or (self adj2 similarit\$3 adj2 propt\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:27
S62	0	("6075821".pn."6072779".pn. "6064692".pn. "5852633".pn. "5479447".pn.) and ((hamming adj2 distance\$1) or (self adj2 similarit\$3 adj2 propt\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:27
S63	0	("6075821".pn."6072779".pn. "6064692".pn. "5852633".pn. "5479447".pn.) and ((hamming adj2 distance\$1) or (self adj2 similarit\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:55
S64	0	(self adj2 (repeat\$3 or replicat\$3)) near3 constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:59
S65	4195	(self adj2 (repeat\$3 or replicat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:59
S66	0	375/260.ccls. and (self adj2 (repeat\$3 or replicat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 15:59
S67	8	"375"/.ccls. and (self adj2 (repeat\$3 or replicat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:00
S68	9	(hamming adj2 distance\$1) same ((quadrature or qam) adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:39
S69	0	S68 and (bit adj2 load\$3 adj2 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:12

## EAST Search History

S70	0	S68 and (bit adj2 load\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:12
S71	35	(bit adj2 load\$3) same ((quadrature or qam) adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:33
S72	0	S71 and (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:31
S73	4	(bit adj2 load\$3) same (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:39
S74	0	self adj2 similar adj2 constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:37
S75	0	(bit adj2 load\$3) near3 (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 17:11
S76	52	(bit adj2 load\$3) and (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:39
S77	0	S76 and (hamming adj2 distance\$1) same ((quadrature or qam) adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:39
S78	0	S76 and (hamming adj2 distance\$1) near3 ((quadrature or qam) adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:40
S79	1	S76 and ((quadrature or qam) adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:53

## EAST Search History

S80	9	hamming adj2 similarity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:54
S81	0	S80 and constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:54
S82	0	((hamming adj2 distance\$1) near3 similarit\$3) near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:55
S83	0	((hamming adj2 distance\$1) near3 similarit\$3) and constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:58
S84	110	constellation\$1 near3 symmetry	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:57
S85	0	S84 and ((bit adj2 load\$3) near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:58
S86	1	S84 and ((bit adj2 load\$3) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:57
S87	0	((hamming adj2 distance\$1) near3 symmetry) and constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:58
S88	0	((hamming adj2 distance\$1) near3 symmetry) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:58
S89	119	((hamming adj2 distance\$1) and symmetry) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:58

## EAST Search History

S90	0	S89 and ((bit adj2 load\$3) near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:59
S91	19	S89 and (constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:59
S92	0	S91 and ((bit adj2 load\$3) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 16:59
S93	2	(bit adj2 load\$3) with (hamming adj2 distance\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 17:19
S94	0	S93 and constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 17:12
S95	0	375/365.ccls. and ((bit adj2 load\$3) with (hamming adj2 distance\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 17:20
S96	0	370/468.ccls. and ((bit adj2 load\$3) with (hamming adj2 distance\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/30 17:20
S97	646	bit adj2 error adj2 probability	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:25
S98	3	S97 and (hamming and constellation and (averag\$3 near3 (bit adj2 error\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:16
S99	0	S98 and (constellation same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:16

## EAST Search History

S10 0	5	S97 and (constellation same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:19
S10 1	0	S100 and (averag\$3 near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:19
S10 2	63	S97 and (averag\$3 near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:16
S10 3	0	S102 and (constellation with hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:16
S10 4	3	S102 and (constellation and hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:26
S10 5	98	(constellation same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:19
S10 6	1	S105 and (averag\$3 near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:20
S10 7	4	370/208.ccls. and (averag\$3 near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:25
S10 8	566	(averag\$3 near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:37
S10 9	67	S108 and (bit adj2 error adj2 probabilit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:26

## EAST Search History

S11 0	3	S109 and (constellation and hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:45
S11 1	18	S109 and (constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:27
S11 2	0	("5353307".pn. "5953311".pn. "6359938".pn. "6442130".pn. "6654429".pn.) and (averag\$3 near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:38
S11 3	89	probability same (averag\$3 near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:45
S11 4	2	S113 and (constellation and hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/01 16:45
S11 5	5	mitlin-vlad.in. and (dmt same constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 08:07
S11 6	67	375/260.ccls. and (dmt same qam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:19
S11 7	6	S116 and (sub adj2 (channel\$1 or carrier\$1)) near3 (bit adj2 error\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 08:36
S11 8	0	S117 and (root adj2 mean adj2 square) and (fec or (foward adj2 error adj2 correction\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 08:09
S11 9	0	S117 and (mean adj2 square) and (fec or ( error adj2 correction\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 08:36

## EAST Search History

S12 0	2	S116 and (mean adj2 square) and (fec or ( error adj2 correction\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 11:29
S12 1	0	S120 and (sub adj2 (channel\$1 or carrier\$1)) near3 (bit adj2 error\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 08:36
S12 2	0	375/260.ccls. and ((mean adj2 square) near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:19
S12 3	0	"375"/.ccls. and ((mean adj2 square) near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:19
S12 4	8	((mean adj2 square) near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:29
S12 5	0	S124 and (dmt same qam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:19
S12 6	0	S124 and (dmt and qam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:20
S12 7	0	S124 and (dmt )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:20
S12 8	4	S124 and ( qam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:21
S12 9	9	((rms) near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:21

## EAST Search History

S13 0	1	S129 and ( qam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:27
S13 1	0	S117 and (square near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:27
S13 2	6	S116 and (square near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:27
S13 3	0	S132 and ((mean adj2 square) near3 (bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:29
S13 4	6	S132 and ((bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:58
S13 5	43	((bit adj2 error\$1) near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:31
S13 6	7	S135 and (square adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:40
S13 7	34	dmt and (square adj2 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 09:40
S13 8	24	S137 and ((bit adj2 error\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:29
S13 9	2	"09248099".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:30



## EAST Search History

S14 0	2	"09242393".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:30
S14 1	2	"09244550".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:30
S14 2	4	"242393".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:30
S14 3	4	"242393".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:30
S14 4	5	"242393".ap.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:31
S14 5	20	multi adj2 carrier adj2 qam	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:58
S14 6	0	S145 and (non adj2 square)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:58
S14 7	5	S145 and square	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 10:59
S14 8	1	S145 and (square near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 11:07
S14 9	4	(bit adj2 error\$1) near3 (square near3 constellation\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 11:07

## EAST Search History

S15 0	4167	(bit adj2 error\$1) near3 (error adj2 correct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 13:41
S15 1	1012	(bit adj2 error\$1) same fec	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 13:41
S15 2	4167	(bit adj2 error\$1) near3 (error adj2 correct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 13:41
S15 3	37	S152 and dmt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 13:42
S15 4	28	S153 and constellation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 13:55
S15 5	0	("6888789".pn. "5960003".pn. "6700926".pn.) and (reed adj2 solomon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 13:59
S15 6	0	("6888789".pn. "5960003".pn. "6700926".pn.) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/10 13:59
S15 7	1	("6888789".pn. "5960003".pn. "6700926".pn. "6870888".pn.) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 10:41
S15 8	0	"6870888".pn. and distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/22 06:55
S15 9	1	"6700926".pn. and distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/22 11:27

## EAST Search History

S16 0	0	"59960003".pn. and distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/22 06:59
S16 1	1	"5960003".pn. and distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/22 06:59
S16 2	432	BTSC	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/22 11:28
S16 3	203	BTSC and television	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/22 11:28
S16 4	2	("6888789".pn. )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 12:14
S16 5	36	dmt and (select\$3 near3 (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:11
S16 6	0	S165 and (hamming near3 (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:02
S16 7	1	S165 and (hamming same (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:03
S16 8	5	S165 and (hamming )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:02
S16 9	6	(hamming same (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:05

## EAST Search History

S17 0	51	qam same hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:18
S17 1	1	S170 and (bit adj2 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:07
S17 2	1	S170 and (bit near3 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:07
S17 3	1	S170 and (bit\$1 near3 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:09
S17 4	0	dmt same qam same hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:08
S17 5	1	dmt and (qam same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:27
S17 6	0	S175 and (bit\$1 near3 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:16
S17 7	156	qam same (bit\$1 near3 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:09
S17 8	9	S177 and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:12
S17 9	3	dmt same (select\$3 near3 (bit adj2 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:12

## EAST Search History

S18 0	0	S179 and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:12
S18 1	3	S179 and distance\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:12
S18 2	0	S175 and (bit\$1 and load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:16
S18 3	1	S175 and (bit\$1 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:16
S18 4	2	qam near3 hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:19
S18 5	0	S184 and ((bit\$1 or load\$3) and dmt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:23
S18 6	0	S164 and ((bit\$1 or load\$3) and dmt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:27
S18 7	7662	bit adj2 load\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:25
S18 8	12	S187 and qam and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:25
S18 9	0	dmt and (qpsk same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:27

## EAST Search History

S19 0	56	(qpsk same hamming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:27
S19 1	53	S190 and ((bit\$1 or load\$3) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:32
S19 2	0	S191 and dmt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:32
S19 3	3	S190 and ((load\$3) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 11:33
S19 4	0	("6888789".pn. ) and deviation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 12:14
S19 5	1	("6888789".pn. ) and (mean or averag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/02 12:15
S19 6	189	dmt same (bit\$1 near3 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 13:48
S19 7	6	S196 and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 13:32
S19 8	90	S196 and distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 13:48
S19 9	158	constellation same (bit\$1 near3 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 14:02

## EAST Search History

S20 0	89	S199 and distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 13:48
S20 1	1316	constellation same (hamming or similar)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 13:52
S20 2	1808	constellation same (hamming or similar\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 13:52
S20 3	5914	7and (constellation same (bit\$1 near3 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 13:53
S20 4	36	S202 and (constellation same (bit\$1 near3 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 14:01
S20 5	9	S204 and ((bit\$1 near3 load\$3) near3 (hamming or similar\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 14:02
S20 6	0	S204 and ((bit\$1 near3 load\$3) near3 (hamming ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 14:02
S20 7	1415	self adj2 similar\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 14:02
S20 8	0	S207 and (constellation same (bit\$1 near3 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 14:03
S20 9	0	S207 and (constellation and (bit\$1 near3 load\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 14:13

## EAST Search History

S21 0	1	"4882733".pn. and constellation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:15
S21 1	0	wo0111842	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:15
S21 2	39	"0111842"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:16
S21 3	0	de0002569	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:16
S21 4	4	"10048508"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:16
S21 5	0	"10048508.ap."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:16
S21 6	6	"048508".ap.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:23
S21 7	0	"19937506".pran.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:23
S21 8	1	"19937506"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/06 15:23
S21 9	2	"4882733".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:09



## EAST Search History

S22 0	0	(sub adj2 channel\$1) near3 hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:09
S22 1	105	(sub adj2 channel\$1) and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:25
S22 2	35	S221 and (bit adj2 load\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:12
S22 3	6	S222 and constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:25
S22 4	156	(bit adj2 load\$3) same constellation\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:25
S22 5	2	S224 and (sub adj2 channel\$1) and hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:28
S22 6	2	"6452981".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:53
S22 7	0	S224 and (sub adj2 channel\$1) same hamming	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:28
S22 8	2	"6888789".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:55
S22 9	1	("6888789".pn. "6452981".pn.) and (mean adj2 square)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/07/06 16:55